

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number
WO 2005/097364 A1

(51) International Patent Classification⁷: **B08B 9/032**

(21) International Application Number:
PCT/EP2004/003370

(22) International Filing Date: 31 March 2004 (31.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **ECO-LAB INC.** [US/US]; 370 Wabasha Street N., St. Paul, MN 55102-1390 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **STROTHOFF, Werner** [DE/DE]; Rüschkamp 24, 48336 Sassenberg-Füchtorf (DE). **EMMENDÖRFER, Jörg** [DE/DE]; Lüntenbecker Weg 92, 42327 Wuppertal (DE). **CARLHOFF, Gerold** [DE/DE]; Ortmannsweg 27, 47918 Tönisvorst (DE). **SCHUSTER, Frank-Rainer** [DE/DE]; Anne Frank Strasse 8, 40699 Erkrath (DE).

(74) Agent: **GESTHUYSEN, VON ROHR & EGGERT**; Huyssenallee 100, 45128 Essen (DE).

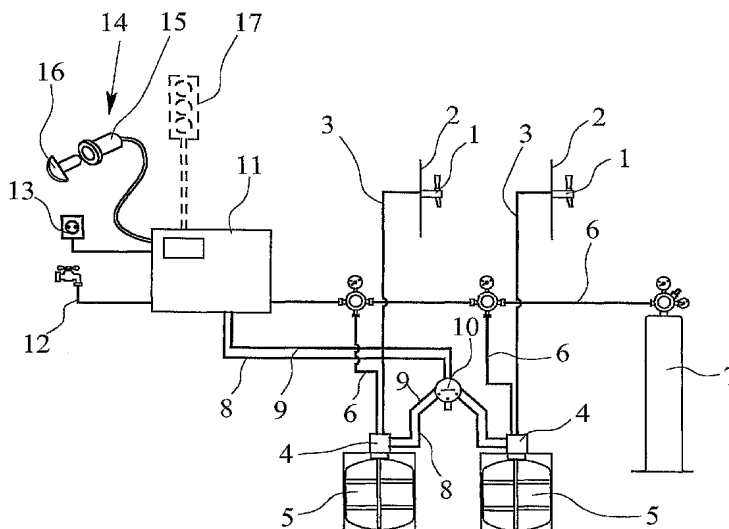
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM FOR SEMI-AUTOMATIC LINE CLEANING



(57) Abstract: This invention describes a system for semi-automatic line cleaning in a beverage dispensing system, said beverage dispensing system comprising at least one tap (1) connected via at least one beverage line (3) to at least one coupling means (4) for a keg or other beverage container (5), said cleaning system comprising additional cleaning lines (8), a control unit (11) and at least one switching means (14) connected to the control unit (11) for switching between a tapping mode and a cleaning mode of the beverage dispensing system. It is preferred that the switching means (14) is designed as an electronic and/or a mechanical key switch so that the system is operable only by authorized personnel. Further it is preferred that the switching means (14) is additionally provided with an optical status indicator (17). Finally it is provided that, irrespective of the location of the control unit (11), the switching means (14) is positioned next to the beverage tap (1).



WO 2005/097364 A1